

Name _____

Water Filtration Lab

A. Define the following:

- Aeration
- Coagulation
- Sedimentation
- Filtration

B. Answer the following questions.

- How did you aerate the water?
- What did you add to the water to aid in coagulation?
- At a treatment plant, what collects floc that floats to the bottom?
- Describe the different layers in your filter. (What is the composition of each layer?)
- Why are disinfectants added to the water at the treatment plant?

C. Data (Sedimentation)

Observe the water during sedimentation at 3 minute intervals for a total of 12 minutes. Write down what you see...What is the appearance of the water?

Time (minutes)	Appearance of Water
0	
3	
6	
9	
12	

D. Compare the treated and untreated water (appearance and smell)

Untreated

Treated

E. Write at least 3 sentences describing what you learned from this lab. Be specific and use detail. Include whether you think treatment has changed the appearance and smell of the water.